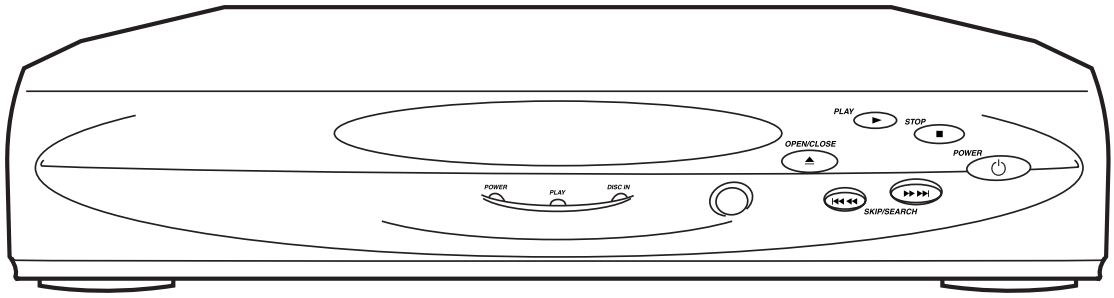
SYLVANIA

SERVICE MANUAL

This service manual supplement (DVL300D) contains only the difference from the original model.
For all other data, see the original service manual for DVL100D.

DVD PLAYER

DVL300D



IMPORTANT SAFETY NOTICE

Proper service and repair is important to the safe, reliable operation of all Funai Equipment. The service procedures recommended by Funai and described in this service manual are effective methods of performing service operations. Some of these service special tools should be used when and as recommended.

It is important to note that this service manual contains various CAUTIONS and NOTICES which should be carefully read in order to minimize the risk of personal injury to service personnel. The possibility exists that improper service methods may damage the equipment. It also is important to understand that these CAUTIONS and NOTICES ARE NOT EXHAUSTIVE. Funai could not possibly know, evaluate and advice the service trade of all conceivable ways in which service might be done or of the possible hazardous consequences of each way. Consequently, Funai has not undertaken any such broad evaluation. Accordingly, a servicer who uses a service procedure or tool which is not recommended by Funai must first use all precautions thoroughly so that neither his safety nor the safe operation of the equipment will be jeopardized by the service method selected.

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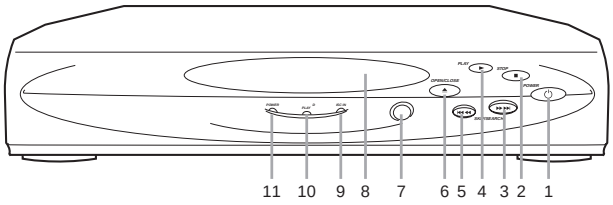
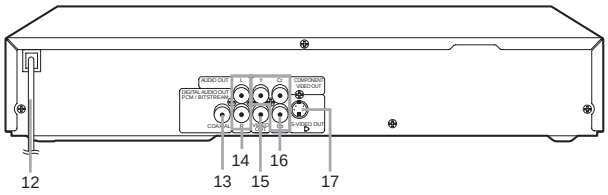
OPERATING CONTROLS AND FUNCTIONS

FRONT PANEL



[Fig. 1]

REAR VIEW

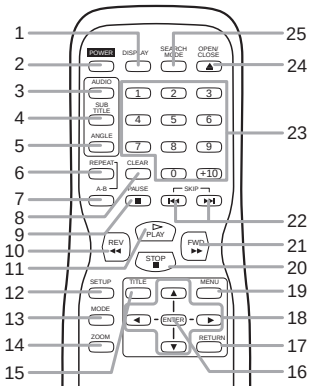


[Fig. 2]

1. **POWER** ⏻
   to switch the player to ON or OFF
2. **STOP**
   to stop playback
3. **SKIP ▶▶| / SEARCH ▶▶**
   goes to next chapter or track during playback; press and hold for 1.5 seconds for a forward search
4. **PLAY**
   to start or resume disc playback
5. **SKIP |◀◀ / SEARCH ◀◀**
   goes to previous chapter or track during playback; press and hold for 1.5 seconds for a reverse search
6. **OPEN/CLOSE**
   to open/close the disc tray
7. **Remote Sensor window**
8. **Disc tray**
9. **DISC IN indicator**
   light appears when a disc is in the DVD player
10. **PLAY indicator**
11. **POWER indicator**
    lights when the power is on
12. **MAIN (AC Power Cord)**
    connect to a standard AC outlet
13. **COAXIAL (Digital audio out)**
    connect to AUDIO inputs of a digital (coaxial) audio equipment
14. **AUDIO OUT (Left/Right)**
    connect to AUDIO inputs of an amplifier, receiver or stereo system
15. **VIDEO OUT**
    connect to the Video Input of a TV.
16. **COMPONENT VIDEO OUT**
    connect to a TV with Component video in jacks.
17. **S-VIDEO OUT**
    connect to a TV with S-Video inputs

Caution: Do not touch the inner pins of the jacks on the rear panel. Electrostatic discharge may cause permanent damage to the player.

REMOTE CONTROL



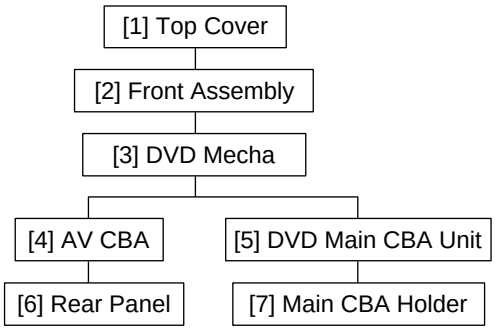
[Fig. 3]

1. **DISPLAY**
   to access or remove the display screen during DVD or Audio CD playback
2. **POWER**
   switch DVD player ON or OFF
3. **AUDIO**
   to choose audio languages or sound modes
4. **SUBTITLE**
   subtitle language DVD selector
5. **ANGLE**
   select DVD camera angle
6. **REPEAT**
   repeat chapter, track, title, all.
7. **REPEAT A-B**
   repeat a specific segment
8. **CLEAR**
   to reset the setting
9. **PAUSE**
   pause playback temporarily / frame-by-frame playback
10. **REV◀◀**
    to view DVD picture in fast reverse motion
11. **PLAY**
    to start a DVD disc playback
12. **SETUP**
    to access or remove the DVD setup menu
13. **MODE**
    to set up programmed or random playback (Audio CD)
    to set the black level and virtual surround during DVD playback
14. **ZOOM**
    enlarge DVD video image
15. **TITLE**
    to display title menu of a disc
16. **ENTER**
    acknowledge menu selection
17. **RETURN**
    to return previous or remove setup menu
18. **Arrow (◀ ▶ ▲▼)**
    select an item in the menu
19. **MENU**
    to display the menu of the DVD disc
20. **STOP**
    to stop a DVD disc playback
21. **FWD▶▶**
    to view DVD picture in fast forward motion
22. **SKIP |◀◀,▶▶|**
    to skip chapter/tracks
23. **0-9 Number buttons**
    select numbered items in a menu
    +10
    use this button to enter number 10 and above
24. **OPEN/CLOSE**
    to open/close the disc tray
25. **SEARCH MODE**
    to locate a desired point

CABINET DISASSEMBLY INSTRUCTIONS

1. Disassembly Flowchart

This flowchart indicates the disassembly steps to gain access to item(s) to be serviced. When reassembling, follow the steps in reverse order. Bend, route, and dress the cables as they were originally.



2. Disassembly Method

ID/ LOC. No.	PART	REMOVAL		
		Fig. No.	REMOVE/*UNHOOK/ UNLOCK/RELEASE/ UNPLUG/DESOLDER	Note
[1]	Top Cover	D1	5(S-1)	-
[2]	Front Assembly	D2	*2(L-1), Tray Panel, *2(L-2), *5(L-3)	1-1 1-2 1-3 1-4 1-5 1-6
[3]	DVD Mecha	D3, D4	3(S-2), *CN201, *CN301	2 2-1 2-2 2-3 3
[4]	AV CBA	D5	4(S-3), 3(S-4), *CN1001, *CN1601	-
[5]	DVD Main CBA Unit	D5	2(S-5)	-
[6]	Rear Panel	D6	3(S-6)	-
[7]	Main CBA Holder	D6	(S-7)	-
↓ (1)	↓ (2)	↓ (3)	↓ (4)	↓ (5)

(1): Identification (location) No. of parts in the figures

(2): Name of the part

(3): Figure Number for reference

(4): Identification of parts to be removed, unhooked, unlocked, released, unplugged, unclamped, or desoldered.
P=Spring, L=Locking Tab, S=Screw,
CN=Connector
*=Unhook, Unlock, Release, Unplug, or Desolder
e.g. 2(S-2) = two Screws (S-2),
2(L-2) = two Locking Tabs (L-2)

(5): Refer to “Reference Notes.”

Reference Notes

CAUTION 1: Locking Tabs (L-1), (L-2) and (L-3) are fragile. Be careful not to break them.

1-1. Connect the wall plug to an AC outlet and press the OPEN/CLOSE button to open the Tray.

1-2. Remove the Tray Panel by releasing two Locking Tabs (L-1).

1-3. Press the OPEN/CLOSE button again to close the Tray.

1-4. Press the POWER button to turn the power off.

1-5. Unplug an AC cord.

1-6. Release two Locking Tabs (L-2). Then, release five Locking Tabs (L-3) (to do this, first release two Locking Tabs (A) at the side, and then three Locking Tabs (B) at the bottom.)

CAUTION 2: Electrostatic breakdown of the laser diode in the optical system block may occur as a potential difference caused by electrostatic charge accumulated on cloth, human body etc, during unpacking or repair work.

To avoid damage of pickup follow next procedures.

2-1. Slide out the pickup unit as shown in Fig. D4.

2-2. Short the three short lands of FPC cable with solder before removing the FFC cable (CN201) from it. If you disconnect the FFC cable (CN201), the laser diode of pickup will be destroyed. (Fig. D4)

2-3. Disconnect Connector (CN301). Remove three Screws (S-2) and lift the DVD Mecha. (Fig. D3)

CAUTION 3: When reassembling, confirm the FFC cable (CN201) is connected completely. Then remove the solder from the three short lands of FPC cable. (Fig. D4)

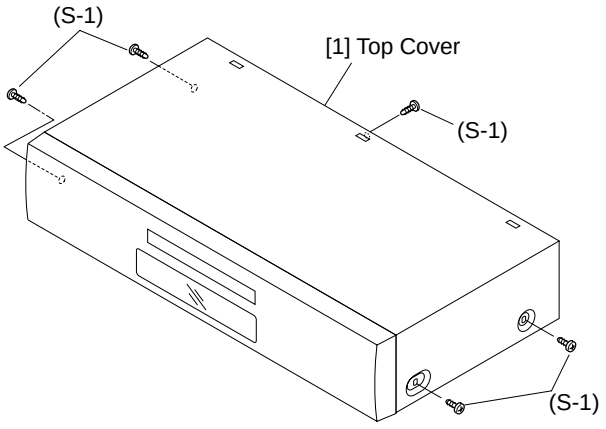


Fig. D1

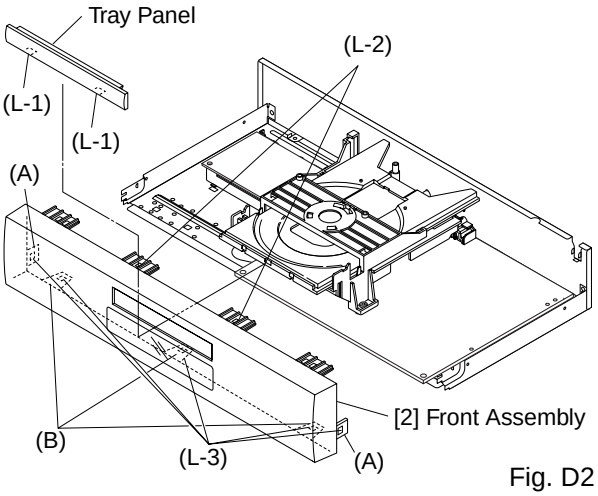


Fig. D2

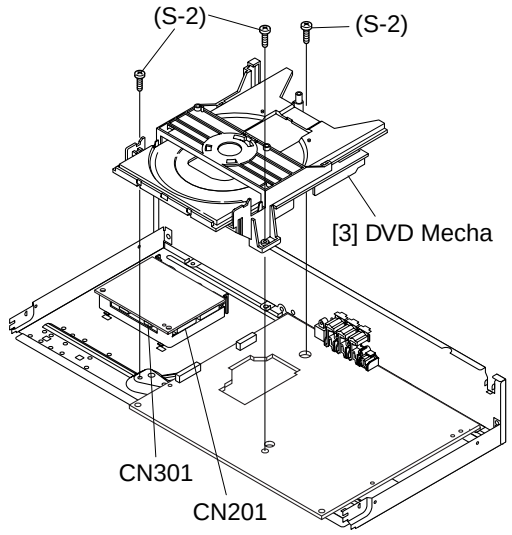
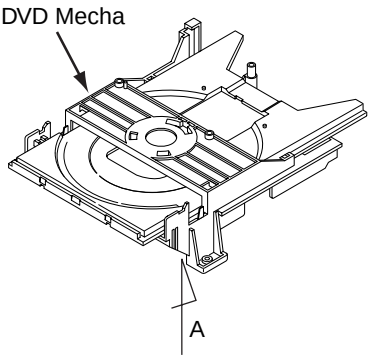


Fig. D3



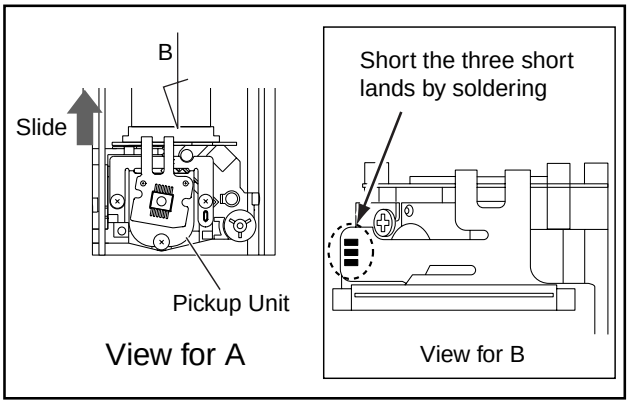


Fig. D4

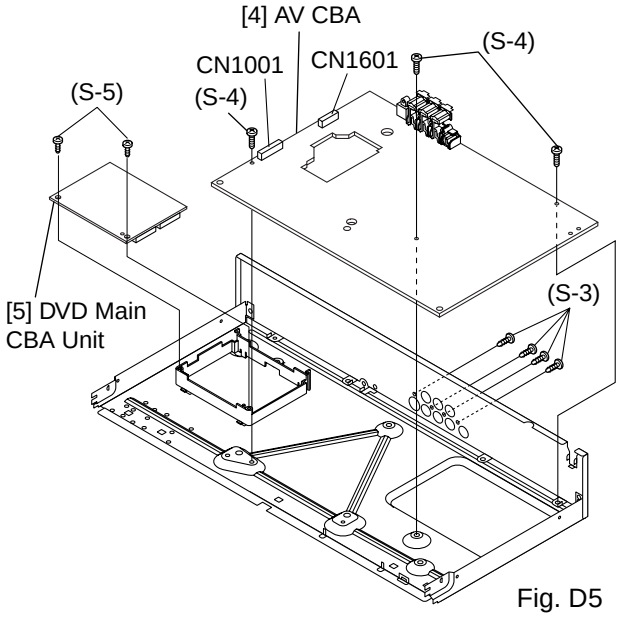


Fig. D5

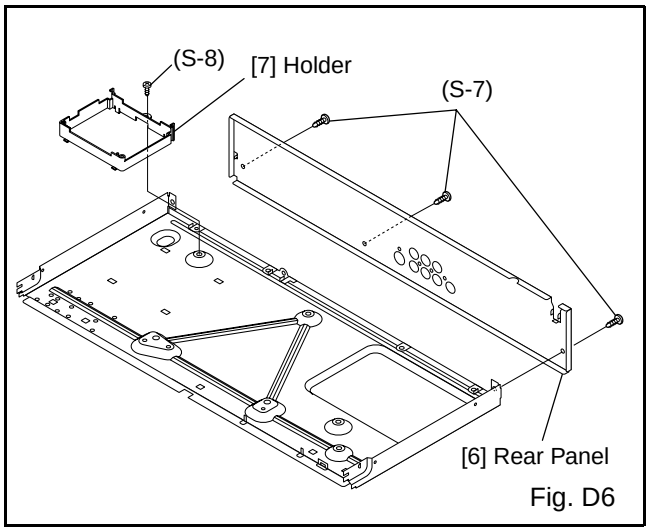
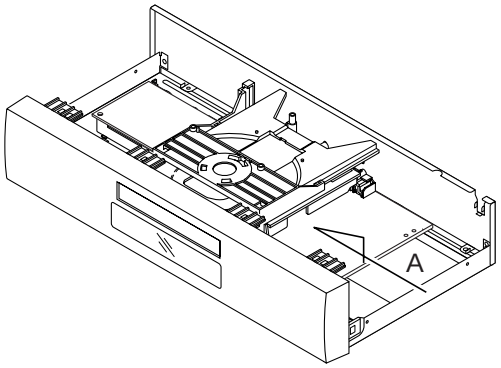
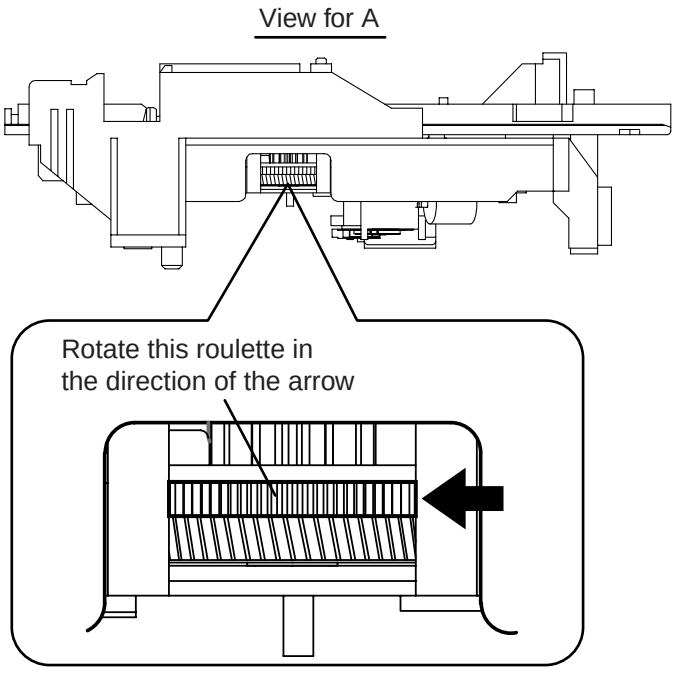


Fig. D6

HOW TO MANUAL EJECT

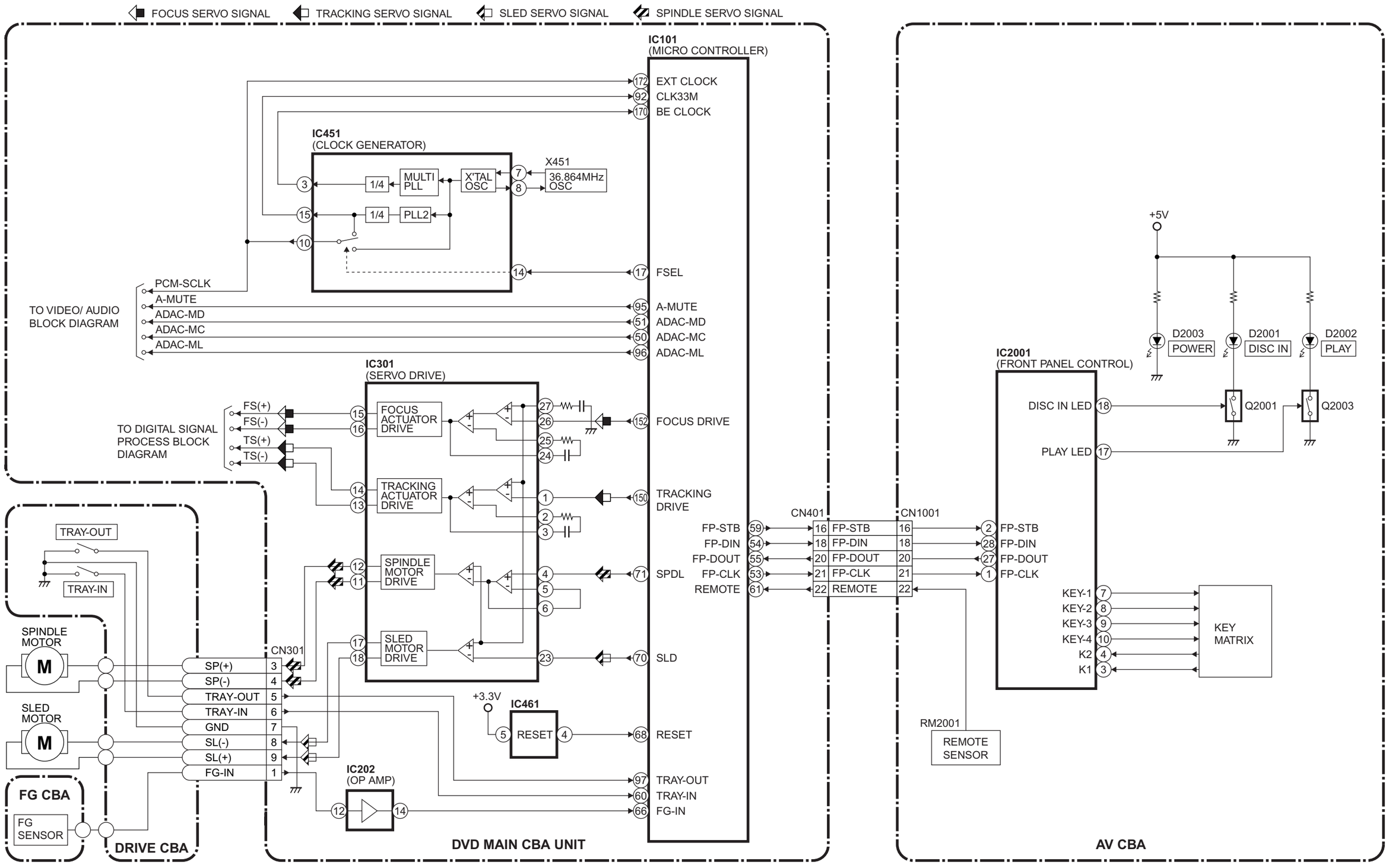
1. Remove the Top Case.
2. Rotate the roulette in the direction of the arrow as shown below.





BLOCK DIAGRAMS

System Control/Servo Block Diagram



SCHEMATIC DIAGRAMS / CBA'S AND TEST POINTS

Standard Notes

WARNING

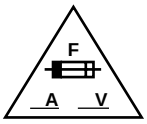
Many electrical and mechanical parts in this chassis have special characteristics. These characteristics often pass unnoticed and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts that have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the mark " ⚠ " in the schematic diagram and the parts list. Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts that do not have the same safety characteristics as specified in the parts list may create shock, fire, or other hazards.

Notes:

1. Do not use the part number shown on these drawings for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since these drawings were prepared.
2. All resistance values are indicated in ohms ($K=10^3$, $M=10^6$).
3. Resistor wattages are 1/4W or 1/6W unless otherwise specified.
4. All capacitance values are indicated in μF ($P=10^{-6}$ μF).
5. All voltages are DC voltages unless otherwise specified.

LIST OF CAUTION, NOTES, AND SYMBOLS USED IN THE SCHEMATIC DIAGRAMS ON THE FOLLOWING PAGES:

1. CAUTION:



FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE FUSE.
ATTENTION: POUR UNE PROTECTION CONTINUE LES RISQES D'INCELE N'UTILISER QUE DES FUSIBLE DE MÊME TYPE.
RISK OF FIRE-REPLACE FUSE AS MARKED.

This symbol means fast operating fuse.
Ce symbole reprèsente un fusible à fusion rapide.

2. CAUTION:

Fixed Voltage (or Auto voltage selectable) power supply circuit is used in this unit.
If Main Fuse (F1001) is blown, first check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

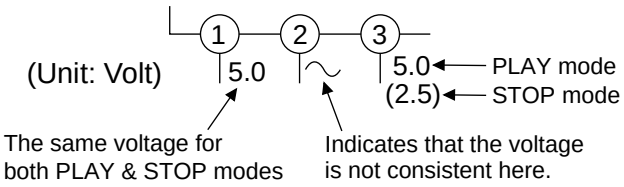
3. Note:

(1) Do not use the part number shown on the drawings for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since the drawings were prepared.
(2) To maintain original function and reliability of repaired units, use only original replacement parts which are listed with their part numbers in the parts list section of the service manual.

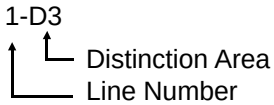
4. Wire Connectors

(1) Prefix symbol "CN" means "connector" (can disconnect and reconnect).
(2) Prefix symbol "CL" means "wire-solder holes of the PCB" (wire is soldered directly).

5. Voltage indications for PLAY and STOP mode on the schematics are as shown below:

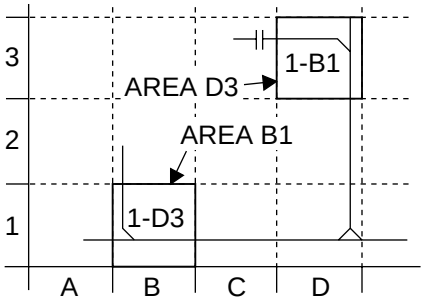


6. How to read converged lines



Examples:

1. "1-D3" means that line number "1" goes to area "D3".
2. "1-B1" means that line number "1" goes to area "B1".



7. Test Point Information

: Indicates a test point with a jumper wire across a hole in the PCB.

: Used to indicate a test point with a component lead on foil side.

: Used to indicate a test point with no test pin.

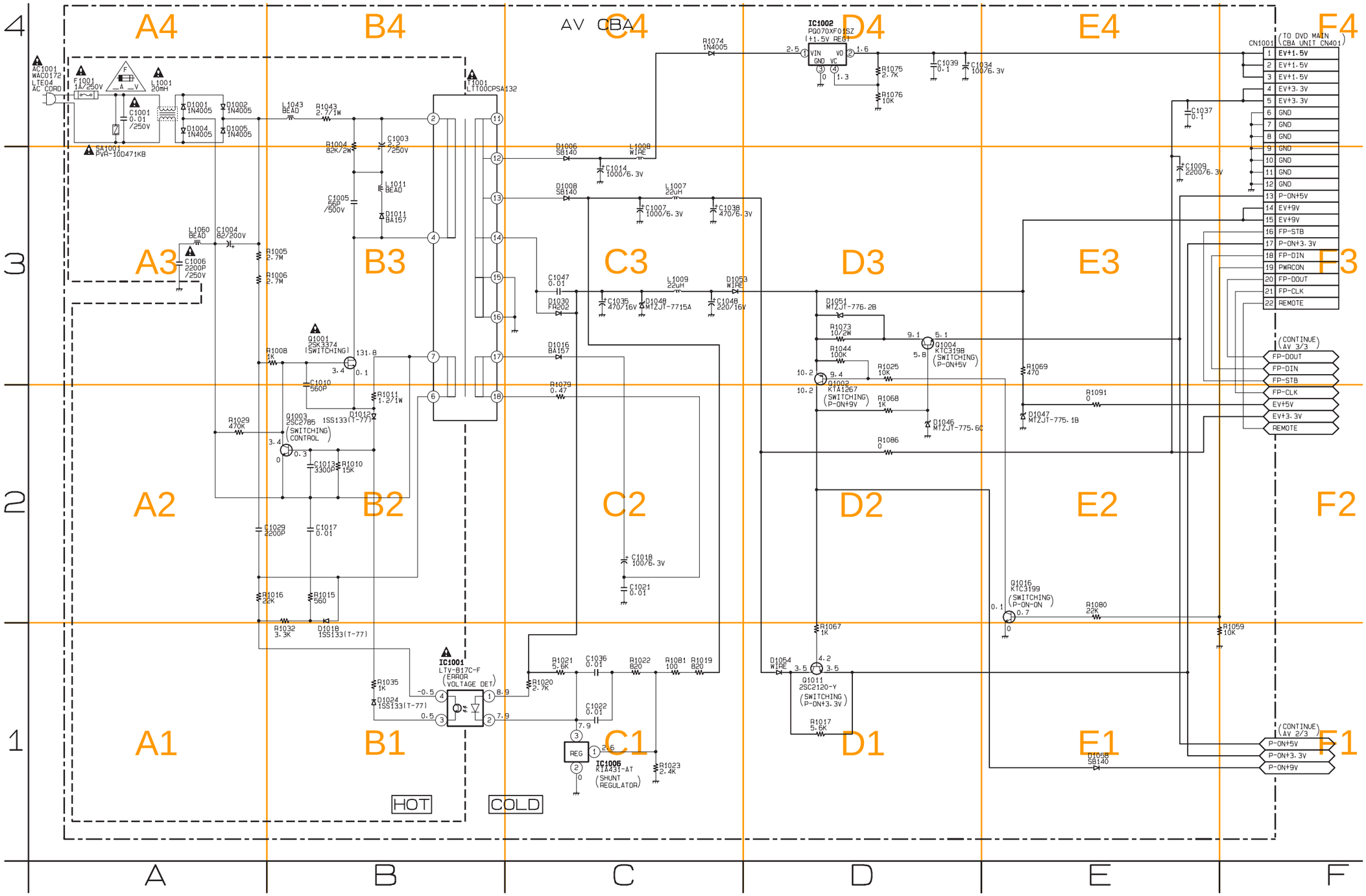
: Used to indicate a test point with a test pin.

AV 1/3 Schematic Diagram

CAUTION !
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit.
If Main Fuse (F1001) is blown, check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply.
Otherwise it may cause some components in the power supply circuit to fail.

CAUTION
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD,
REPLACE ONLY WITH THE SAME TYPE FUSE.
ATTENTION : POUR UNE PROTECTION CONTINUE LES RISQES
D'INCELE N'UTILISER QUE DES FUSIBLE DE MÊME TYPE.
RISK OF FIRE-REPLACE FUSE AS MARKED.
"This symbol means fast operating fuse."
"Ce symbole représente un fusible à fusion rapide."

NOTE :
The voltage for parts in hot circuit is measured using hot GND as a common terminal.

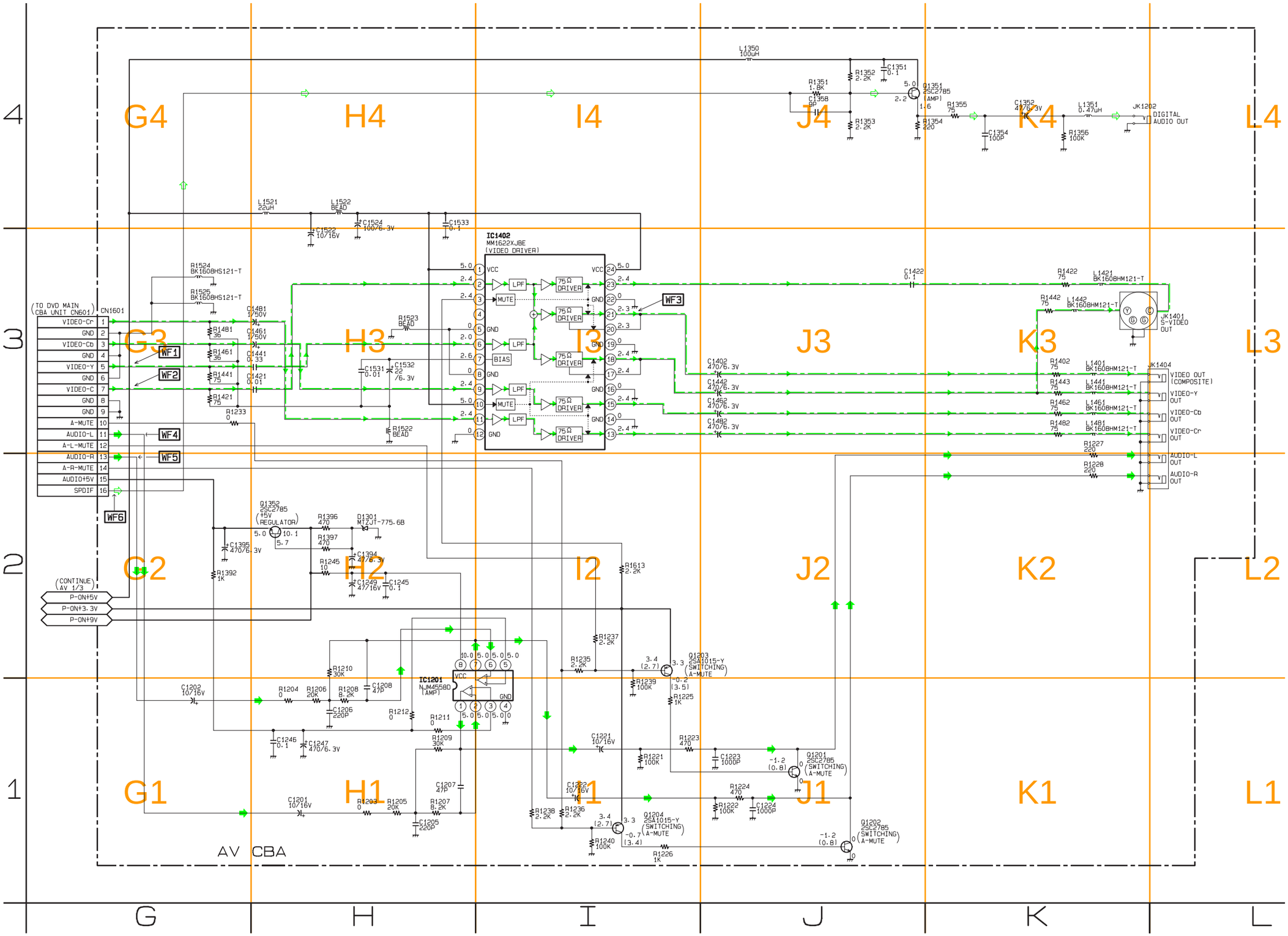


AV 1/3

Ref No.	Position
ICS	
IC1001	B-1
IC1002	D-4
IC1006	C-1
TRANSISTORS	
Q1001	B-3
Q1002	D-3
Q1003	B-2
Q1004	D-3
Q1011	D-1
Q1016	E-2
CONNECTOR	
CN1001	F-4

AV 2/3 Schematic Diagram

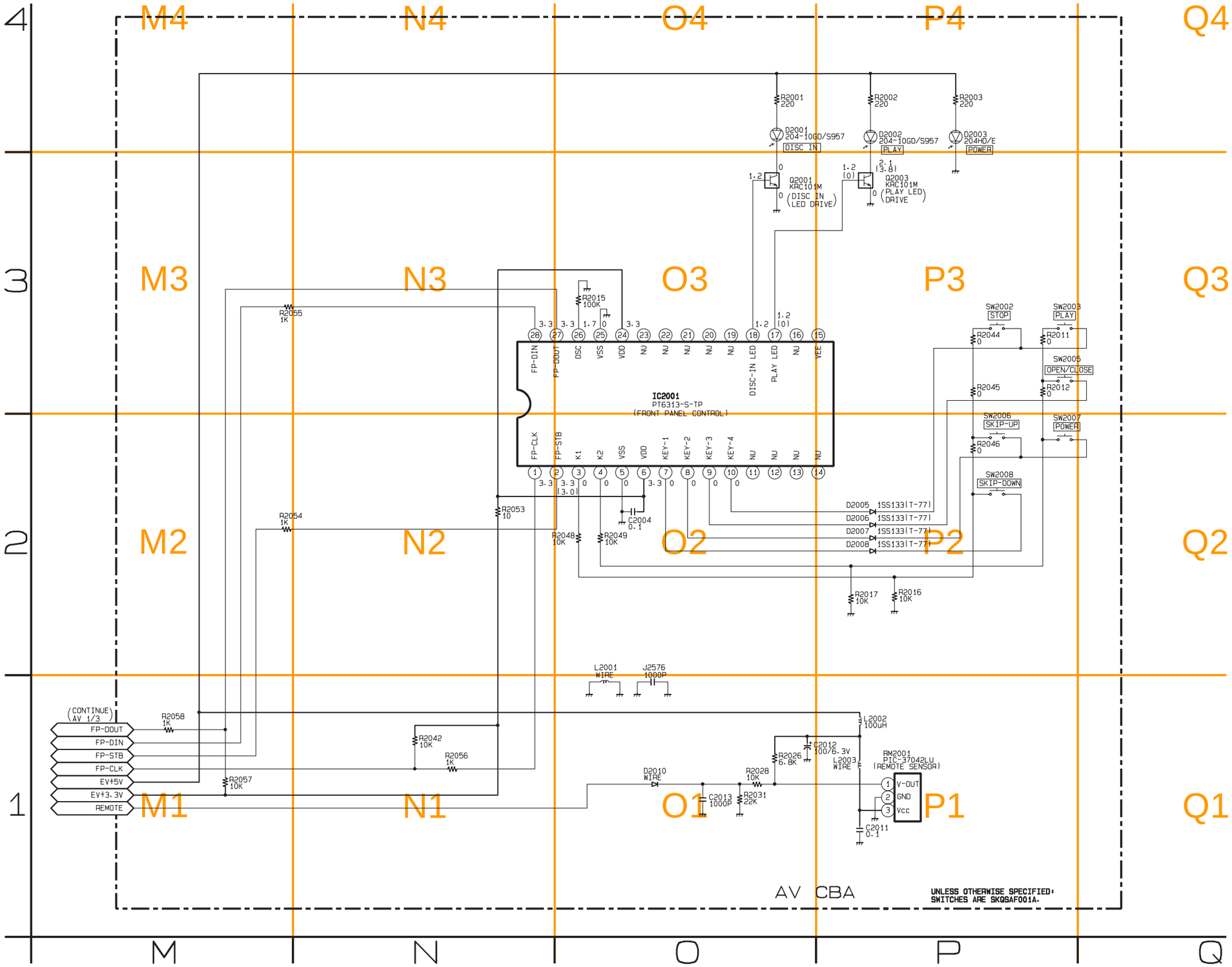
VIDEO SIGNAL DATA(AUDIO) AUDIO SIGNAL



AV 2/3

Ref No.	Position
ICS	
IC1201	H-1
IC1402	I-3
TRANSISTORS	
Q1201	J-1
Q1202	J-1
Q1203	I-2
Q1204	I-1
Q1351	J-4
Q1352	H-2
CONNECTOR	
CN1601	G-3

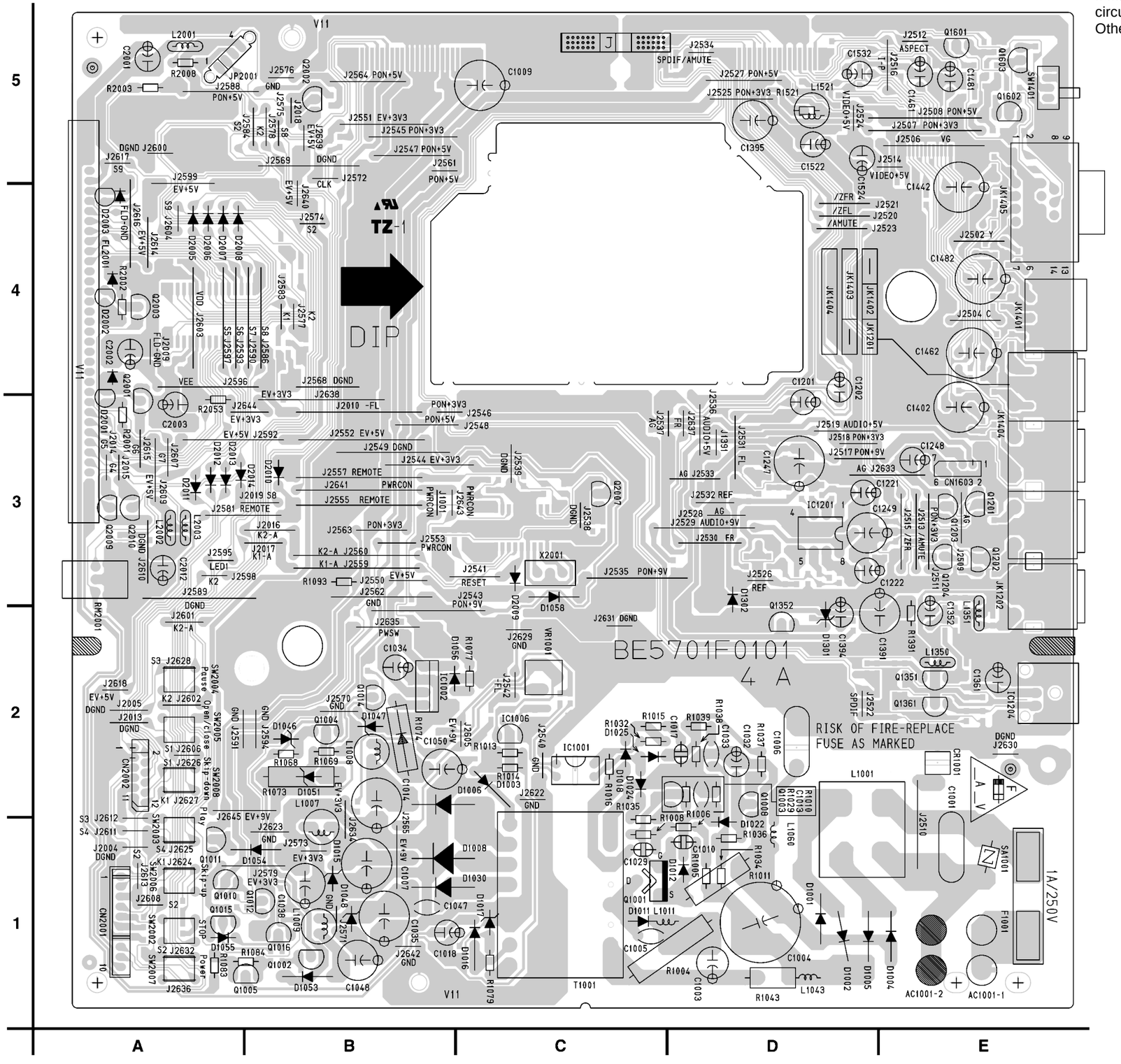
AV 3/3 Schematic Diagram



AV 3/3

Ref No.	Position
IC	
IC2001	O-3
TRANSISTORS	
Q2001	O-3
Q2003	P-3

AV CBA Top View



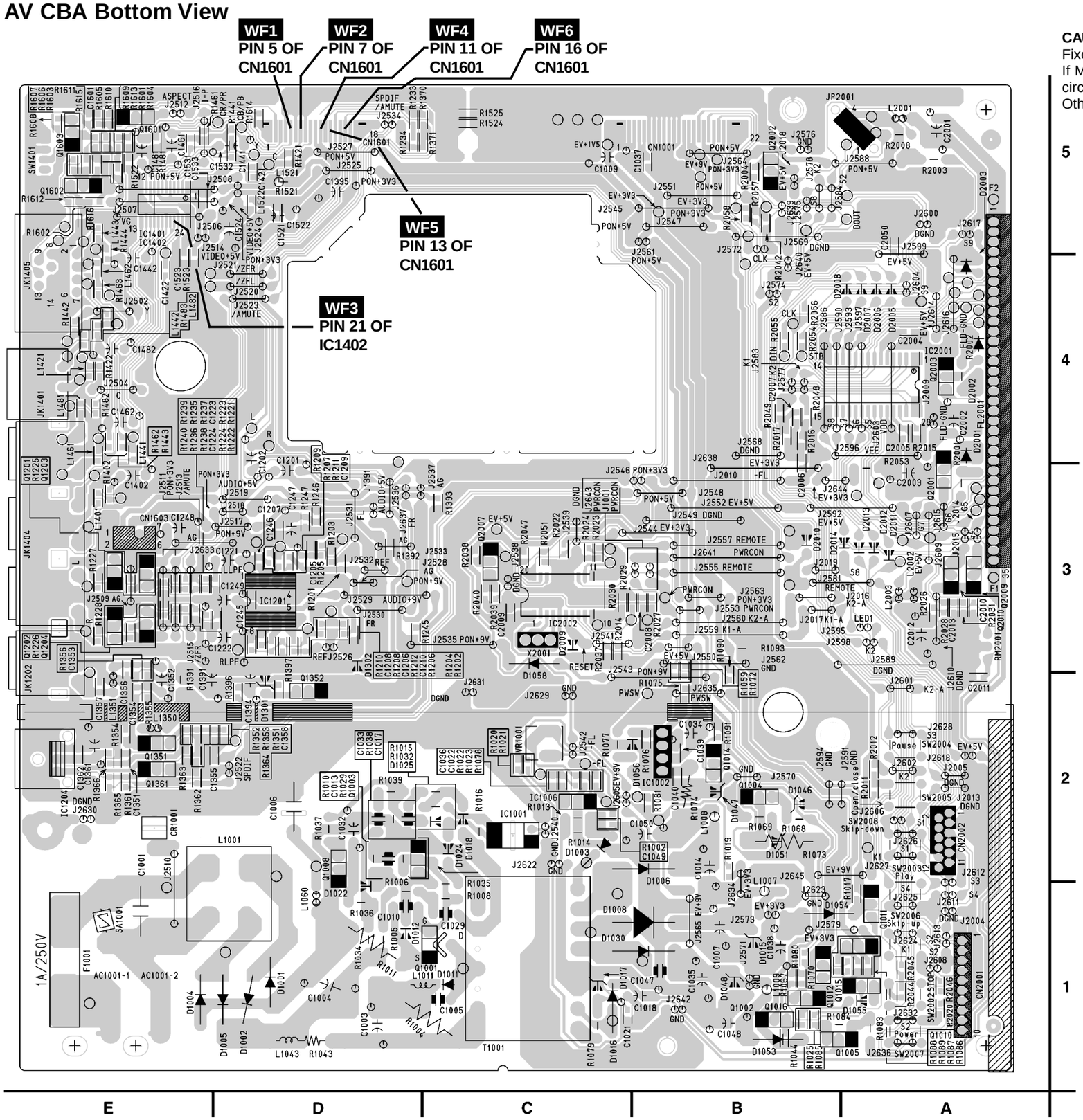
CAUTION !
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit.
If Main Fuse (F1001) is blown, check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply.
Otherwise it may cause some components in the power supply circuit to fail.

CAUTION
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD,
REPLACE ONLY WITH THE SAME TYPE FUSE.
ATTENTION : POUR UNE PROTECTION CONTINUE LES RISQES D'INCELE N'UTILISER QUE DES FUSIBLE DE MÊME TYPE.
RISK OF FIRE-REPLACE FUSE AS MARKED.

"This symbol means fast operating fuse."
"Ce symbole reprèsente un fusible à fusion rapide."

NOTE :
The voltage for parts in hot circuit is measured using hot GND as a common terminal.

AV CBA Bottom View



CAUTION !
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit.
If Main Fuse (F1001) is blown, check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

5

CAUTION
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD,
REPLACE ONLY WITH THE SAME TYPE FUSE.
ATTENTION : POUR UNE PROTECTION CONTINUE LES RISQES
D'INCELE N'UTILISER QUE DES FUSIBLE DE MÊME TYPE.
RISK OF FIRE-REPLACE FUSE AS MARKED.

"This symbol means fast operating fuse."
"Ce symbole représente un fusible à fusion rapide."

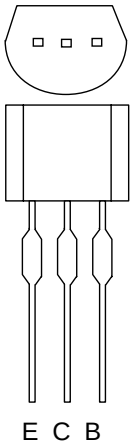
4

NOTE :
The voltage for parts in hot circuit is measured using hot GND as a common terminal.

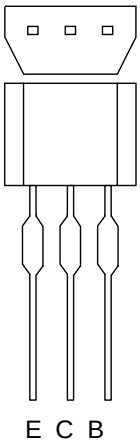
AV CBA

Ref No.	Position
ICS	
IC1001	C-2
IC1002	B-2
IC1006	C-2
IC1201	D-3
IC1402	E-5
IC2001	A-4
TRANSISTORS	
Q1001	C-1
Q1002	B-2
Q1003	D-1
Q1004	B-2
Q1011	A-1
Q1016	B-1
Q1201	E-3
Q1202	E-3
Q1203	E-3
Q1204	E-3
Q1351	E-2
Q1352	D-2
Q2001	A-3
Q2003	A-4
CONNECTORS	
CN1001	B-5
CN1601	D-5

LEAD IDENTIFICATIONS

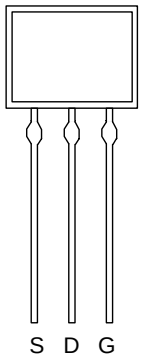


2SA1015-Y (TPE2)
KTA1266 (Y)
KTC3198 (Y)
2SC2120-Y(TPE2)

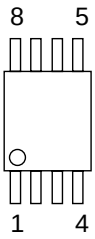


2SC2785 (H)
KTC3199 (GR)
KRA110M
KTA1267 (Y)
BN1L3Z (P)
KRC101M
BA1L3M-T

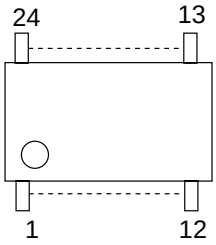
2SK3374



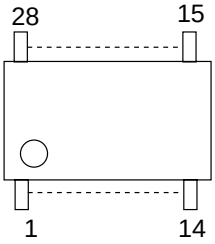
NJM4558D
KIA4558P



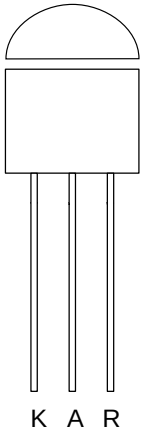
MM1622XJBE



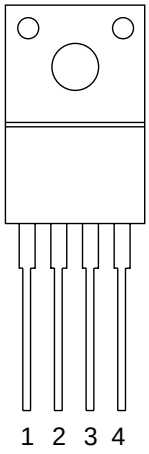
PT6313-S



KIA431-AT



PQ070XF01SZ



1: Vin
2: Vo
3: GND
4: Vc

LTV-817(B,C)-F

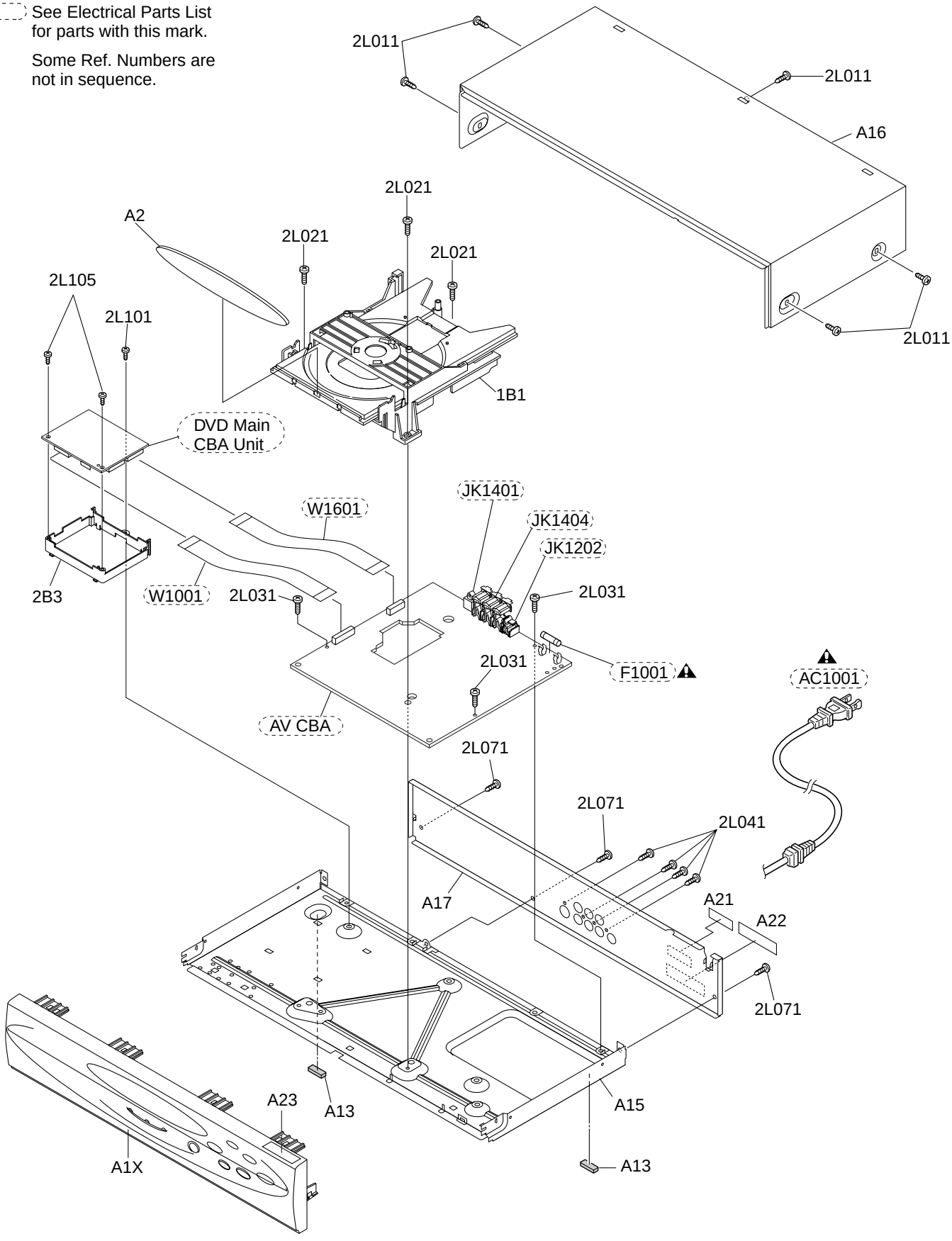
Note:
A: Anode
K: Cathode
E: Emitter
C: Collector
B: Base
R: Reference
G: Gate
D: Drain
S: Source

EXPLODED VIEWS

Cabinet

( ) See Electrical Parts List for parts with this mark.

Some Ref. Numbers are not in sequence.



DIFFERENT PARTS FROM ORIGINAL MODEL (DVL100)

PRODUCT SAFETY NOTE: Products marked with a ⚠ have special characteristics important to safety. Before replacing any of these components, read carefully the product safety notice in this service manual. Don't degrade the safety of the product through improper servicing.

NOTES:

1. Parts that are not assigned part numbers (---------) are not available.
2. Tolerance of Capacitors and Resistors are noted with the following symbols.

C.....±0.25%	D.....±0.5%	F.....±1%
G.....±2%	J.....±5%	K.....±10%
M.....±20%	N.....±30%	Z.....+80/-20%

Ref. No.	Description	Part No.
Mechanical Parts		
A1X	FRONT ASSEMBLY E5761UD	0VM204381
A2	TRAY PANEL E5761UD	0VM415951
A15	MAIN CHASSIS E5760UD	0VM101209
A16	TOP COVER E5626UD	0VM305489
A17	REAR PANEL E5760UD	0VM203857
A21	LABEL, MODEL NO. E5761UD	----------
A22	LABEL, BAR CODE E5761UD	----------
2B3	HOLDER, MAIN PCB E5700UD	0VM305832B
2B24	Not Used	
2L011	SCREW, C-TIGHT M3X5 BIND HEAD +	GBKC3050
2L082	Not Used	
S1	GIFT BOX CARTON E5761UD	0VM306579
S2	STYROFOAM E5720UD	0VM101249
S4	UNIT, BAG V4010PA	0VM406453B
X1	REMOTE CONTROL UNIT DVD 0842 VCDVR040	NA603UD
X1	REMOTE CONTROL UNIT DVD 0842 VCDVR040	NA653UD
X10⚠	OWNER'S MANUAL E5761UD	0VMN03847
X36	Not Used	
Electrical Parts		
	DVD MAIN CBA UNIT	N79F1GUP
	AV CBA	0VSA14300
C1049	Not Used	
C2001	Not Used	
C2002	Not Used	
D1003	Not Used	
D1017	Not Used	
D1055	Not Used	
D2001	LED(GREEN) 204-10GD/S957	NPQZ10GDS957
D2002	LED(GREEN) 204-10GD/S957	NPQZ10GDS957
D2003	LED(RED) 204HD/E	NPQZ00204HDE
FL2001	Not Used	
Q1005	Not Used	
Q1015	Not Used	

Ref. No.	Description	Part No.
Q2001	RES. BUILT-IN TRANSISTOR KRC101M	NQSZ0KRC101M
Q2001	RES. BUILT-IN TRANSISTOR BA1L3M-T	QQSZ00BA1L3M
Q2003	RES. BUILT-IN TRANSISTOR KRC101M	NQSZ0KRC101M
Q2003	RES. BUILT-IN TRANSISTOR BA1L3M-T	QQSZ00BA1L3M
R1002	Not Used	
R1013	Not Used	
R1078	Not Used	
R1083	Not Used	
R1084	Not Used	
R1085	Not Used	
R2001	CARBON RES. 1/4W J 220 Ω	RCX4JATZ0221
R2002	CARBON RES. 1/4W J 220 Ω	RCX4JATZ0221
R2003	CARBON RES. 1/4W J 220 OHM Ω	RCX4JATZ0221
SW2004	Not Used	

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